

Advanced Medical Systems, Inc.

RADIOLOGICAL AREAS AND POSTING	Procedure: RSP-011	Revision No.: 000
	Page: 1 of 5	Date: December 28, 1995
	Approved by (Vice President):	
	Approved by (RSO):	
	Approved by (RSC Chair):	

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1 PURPOSE

This procedure describes the radiological areas and posting requirements for the Advanced Medical Systems, Inc. (AMS) facility on London Road.

2 SCOPE

This procedure applies to all controlled and restricted areas at the London Road facility.

3 REFERENCES

- 3.1 Title 10, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports for Workers; Inspection and Investigations"
- 3.2 Title 10, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation".
- 3.3 U. S. Nuclear Regulatory Commission Radioactive Material License Number 34-19089-01
- 3.4 Advanced Medical Systems, Inc., Radiation Safety Procedure No. RSP-001, "Radiation Protection Records".
- 3.5 Advanced Medical Systems, Inc., Radiation Safety Procedure No. RSP-007, "Training in Radiation Protection".

4 DEFINITIONS

The definition of terms used in this RSP that may not be commonly understood shall be found in RSP-002, "Definitions".

5 PROCEDURE

5.1 Responsibilities

5.1.1 The Radiation Safety Officer (RSO) shall:

- 5.1.1.1 Ensure radiological areas are established based upon radiological conditions.
- 5.1.1.2 Approve all work in restricted areas prior to the beginning of work.
- 5.1.1.3 Ensure that all employees understand the appropriate labeling of radiological areas.

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5.1.1.4 Ensure removal of radiation hazard identification postings when the conditions requiring their use no longer exist.

5.1.2 Radiation Protection Technicians shall periodically observe radiological areas to ensure that the requirements of this procedure are being met.

5.1.3 AMS personnel shall:

5.1.3.1 Observe and obey radiological areas and postings.

5.1.3.2 Periodically review this procedure.

5.2 Areas to be Posted

5.2.1 Radiological area posting/labeling requirements throughout AMS shall be as described in 10 CFR 20, Subpart J.

5.2.2 The following radiological areas may be established by the RSO:

5.2.2.1 Restricted Areas

5.2.2.2 Radiation Areas

5.2.2.3 High Radiation Areas

5.2.2.4 Very High Radiation Areas

5.2.2.5 Airborne Radioactivity Areas

5.2.2.6 Contaminated Areas

5.2.3 Each area, building, or room in which licensed radioactive materials are stored in quantities that exceed 10 times the quantity of such materials shown in 10 CFR Appendix C of 20.1001-2401 shall be posted with the magenta and yellow symbol and the words "CAUTION - RADIOACTIVE MATERIAL(S)" at each entrance point.

Note: For ^{60}Co and depleted uranium, the Appendix C quantities are one (1) microcurie and 100 microcuries, respectively. If a combination of materials is present (i.e., a combination of uranium and ^{60}Co), the following relationship must be true:

$$\frac{\mu\text{Ci}_{\text{Co}}}{1} + \frac{\mu\text{Ci}_{\text{U}}}{100} \geq 1$$

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5.2.4 Caution signs may not be necessary in areas/rooms containing radioactive materials for a period of less than eight (8) hours, provided that the materials are attended throughout the temporary storage period by an individual who has been trained in the precautions for radiation exposure of personnel.

5.3 Posting Requirements

5.3.1 The yellow and magenta trefoil (three-blade) radiation symbol shall be used to signify the actual or potential presence of ionizing radiation and to identify objects, devices, materials, or combinations of materials which emit ionizing radiation.

5.3.2 The symbols and color combination of yellow and magenta are not to be used for purposes other than to warn of the actual or potential presence of a radiation or contamination hazard.

5.3.3 Each sign, tag, or label shall be displayed prominently and must be recognizable from a safe distance.

Note: The signs and symbols shall conform to 10 CFR 20.1901.

5.3.4 Each posted area shall be defined and clearly marked with appropriate signs and may include a portion or all of a room, building, area, or vehicle.

Note: Areas without clearly defined existing boundaries (e.g., walls or fences) should be defined by the use of magenta/yellow tape, ribbon, or rope.

5.3.5 Supplementary notices specifying the requirements for entry to and exit from areas and other special precautions that are to be exercised should be posted in conjunction with radiation warning signs and tags to provide personnel with any required additional instructions or information not given by the signs and tags.

5.3.6 Information signs, tags, labels, and notices shall be kept current, reflecting any changes in radiological conditions.

5.3.7 Warning signs, tags, labels, notices and other radiation hazard identification markings shall be removed only by the RSO when conditions requiring their use no longer exist.

5.3.8 Form USNRC-3, "Notice to Employees" shall be posted in prominent locations within the AMS controlled area, such as employee break rooms and bulletin boards.

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5.4 Training

General employees and other personnel permitted unescorted access to the AMS Controlled Area shall be trained in recognition of posting/labeling pursuant to RSP-007.

6 EXEMPTION PROVISIONS

Variances and exceptions to the requirements of this Radiation Safety Procedure shall be permitted pursuant to the written authorization of the RSO and the Vice President.

7 DOCUMENTATION

All records pertinent to this procedure shall be maintained pursuant to RSP-004.

8 ATTACHMENTS

None
